

June 26, 2008



Stephen F. Nightingale, P.E.
Permit Section Manager
Illinois Environmental Protection Agency
Bureau of Land
1021 North Grand Avenue East
Springfield, Illinois 62794-9276

Re: Winnebago Landfill

Winnebago County – 2018080001 Addendum to Log No. 2007-181

## Dear Mr. Nightingale:

On behalf of our client, William Charles Waste Companies (WCWC), submitted herein are an original and three copies of an addendum to Log No. 2007-181. This addendum provides revised Groundwater Management Zone (GMZ) extent maps and an investigation plan for the area west of the GMZ boundary, as discussed in the April 9, 2008 meeting between Illinois EPA, Andrews Engineering and WCWC personnel.

## **Revised GMZ Extent**

Pursuant to an Illinois EPA request during the April 9, 2008 meeting, the GMZ extent maps have been revised. Figure 1 illustrates the revised boundaries for both the upper and lower zones of the GMZ. The original upper zone GMZ extent included three separate areas: the area directly downgradient of the North Unit, a small area around well G37S and an area west of Killbuck Creek that included wells G34S and G35S. The revised maps consolidate all three areas into one contiguous GMZ zone, as shown in Figure 1. The original lower zone GMZ extent included four separate areas: the area directly downgradient to the northwest of the North Unit that included wells G41M and G39S, a smaller area directly downgradient to the west of the North unit that includes well G38S, a small area west of Killbuck Creek that includes G34D and another small area west of Killbuck Creek surrounding well G16M. The revised maps consolidate the areas west of Killbuck Creek with the area northwest of the North Unit, as shown in Figure 1. The revised extents incorporate all areas exhibiting concentrations above the permitted backgrounds and represent the furthest extent of those elevated concentrations. It should be noted that "clean" areas (areas where concentrations of the GMZ parameters are below the permitted background values) exist within the revised GMZ extents. The revised GMZ boundaries do not constitute an increase in the size of the GMZ.

## Proposed GMZ Investigation

Although significant decreases in the GMZ extent and GMZ parameter concentrations have been demonstrated, the Illinois EPA has requested further characterization of the western boundary of the GMZ. The following investigation plan incorporates the results of the April 9 meeting and will be implemented within 90 days of approval of Log No. 2007-181.

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Four investigation locations, T1-T4, have been selected along the western edge of the GMZ, as illustrated in Figure 2. Each boring will be extended to the top of the bedrock surface. Discreet groundwater samples will be collected from the upper and lower GMZ zones at each boring location. The samples will be analyzed for the GMZ parameters.

The results of the investigation will be submitted to the Illinois EPA in the form of a significant modification permit application within 180 days of approval of Log No. 2007-181. The application will include a summary of the investigation, boring logs for each investigation location and sample results. If sample results indicate concentrations above the permitted backgrounds, then recommendations for further investigation will be included in the application. If all the sample results are below the permitted background values then a proposal for the installation of a minimum of one compliance boundary well for each GMZ zone will be included.

If you have any questions or require additional information, please Tom Hilbert at (815) 963-7516.

Sincerely,

Sara R. Holland Hydrogeologist

SRH:sib

CC:

Tom Hilbert – William Charles Waste Companies
Bernie Schorle – USEPA, Region 5

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